

Dominguez Channel and Los Angeles and Long Beach Harbors TMDLs

California Regional Water Quality
Control Board, Los Angeles Region
US Environmental Protection Agency

September 15, 2005

Today's Agenda

- EPA and Regional Board Staff
- Review work accomplished
- Monitoring data and data gaps
- Issues - dredging
- Process - TAC
- Schedule

Review of actions taken

- “heads up” meeting November 2004
- Port of LA Estuary Project
- Contaminated Sediment Task Force
- This TMDL
 - Geographic area
 - EFDC model

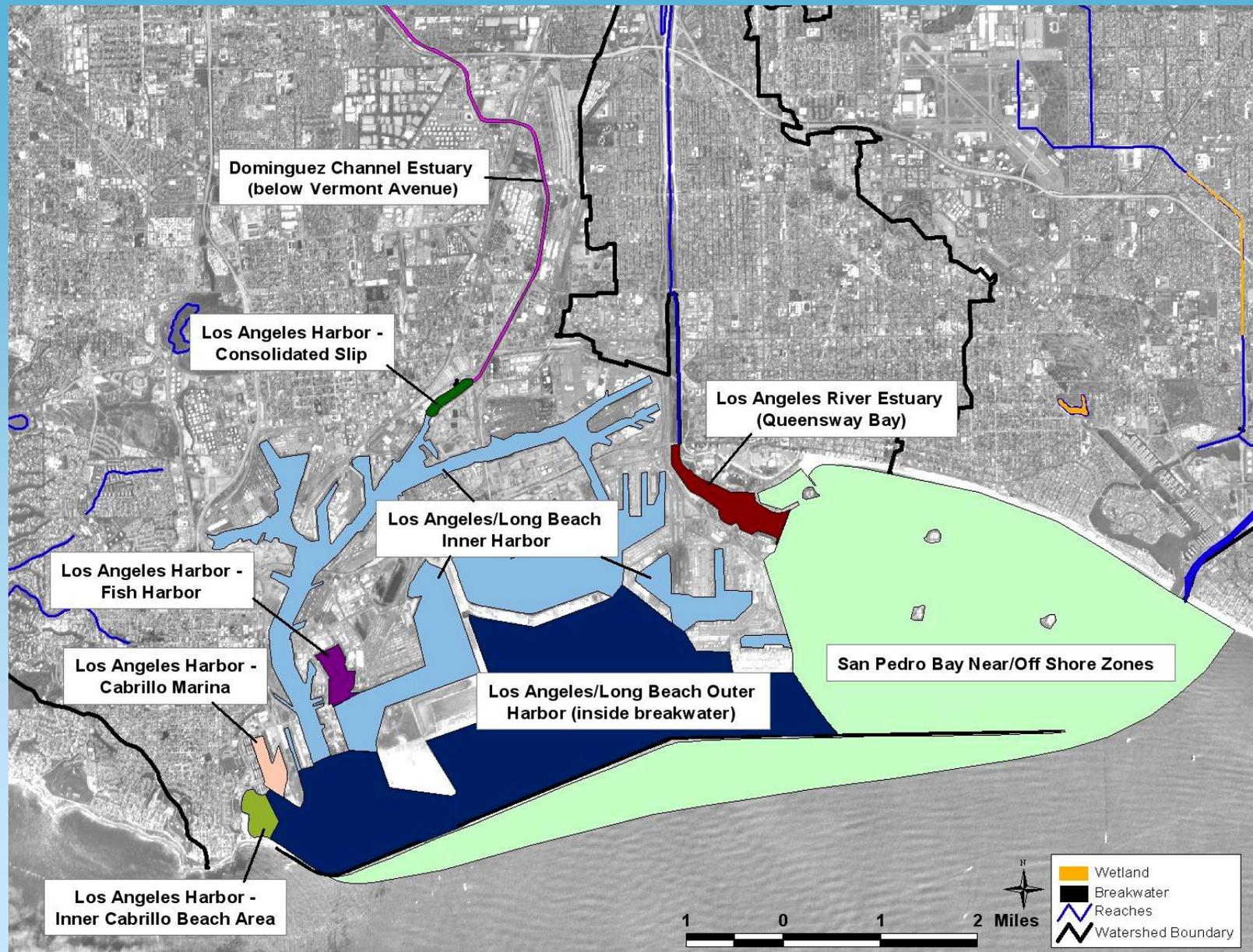
Review of TMDL actions taken

- Actions specific to this TMDL
 - *Los Angeles and Long Beach Harbor Complex Framework for Calculating TMDLs*
 - Geographic area
 - EFDC model

303(d) list

- The 303(d) list: Clean Water Act
 - the basis of TMDLs
- State Board is updating the list
 - timing is uncertain
- Anticipate no dramatic changes

303 (d) list Waterbodies



What might this TMDL look like?

- Problem statement
- Numeric Targets
- Sources
- Linkage
- Allocations
- Margin of safety/Critical conditions
- Implementation Plan

What might this Implementation Plan look like?

- Special Studies
- Allocations for point sources
 - targets in NPDES permits
- Allocations for non-point sources
- *Implementation over time*



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Monitoring Data

- Sediment quality maps
- Wet/dry monitoring maps
- Discussion of data gaps

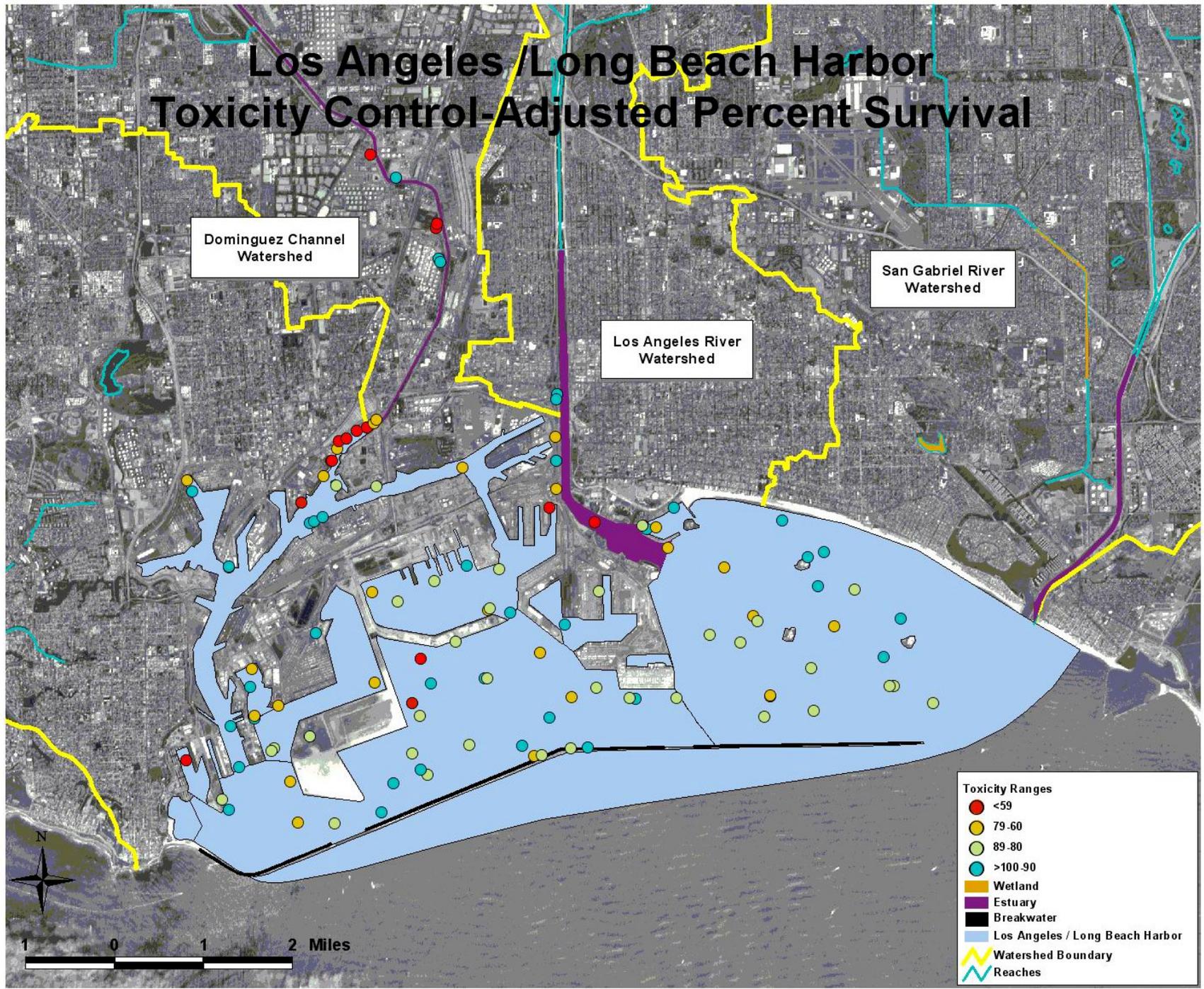
Table of data & info available (see handout)

- ✓ Modeling info/data
- ✓ Water Quality info/data

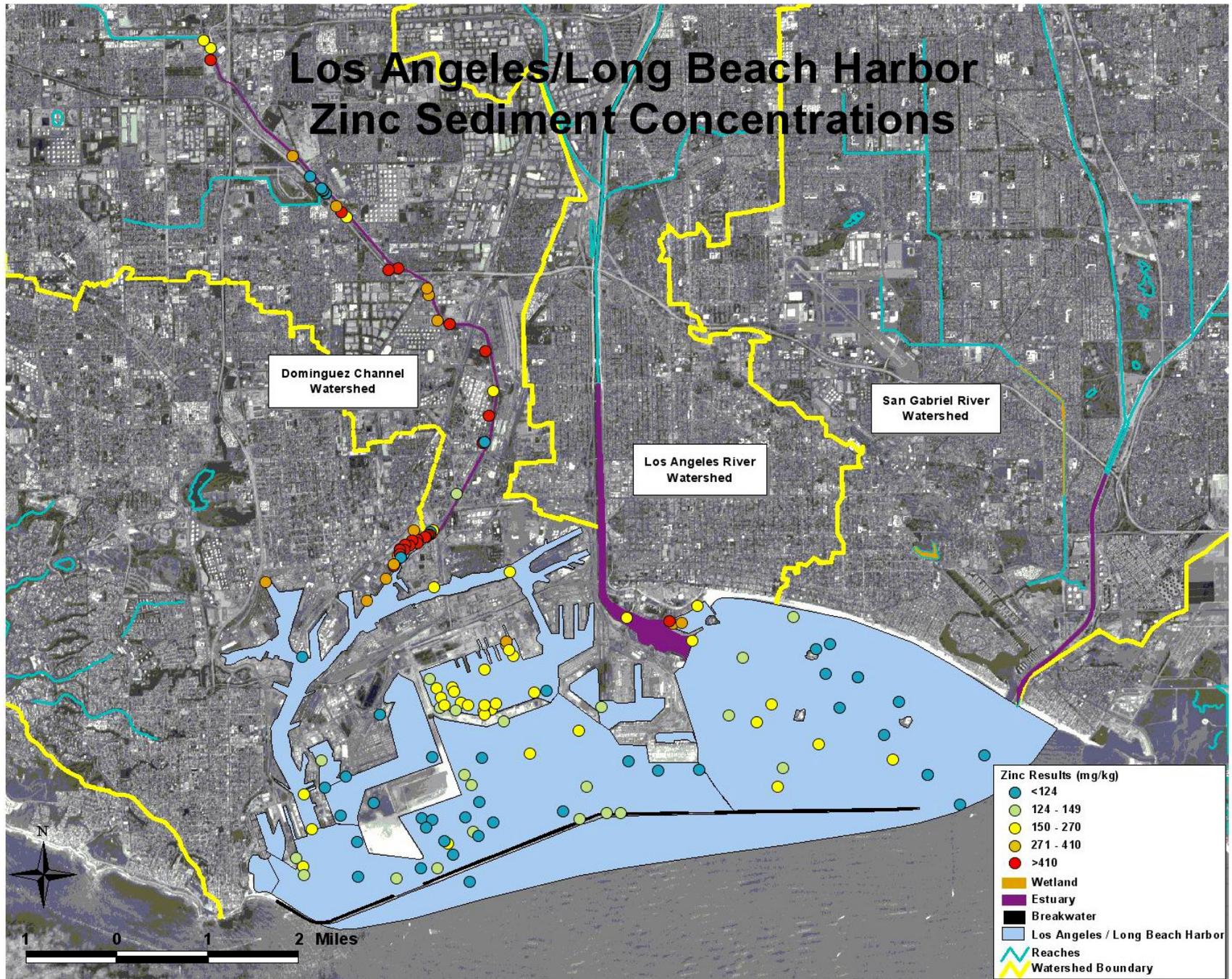
Sediment Quality maps - assumptions

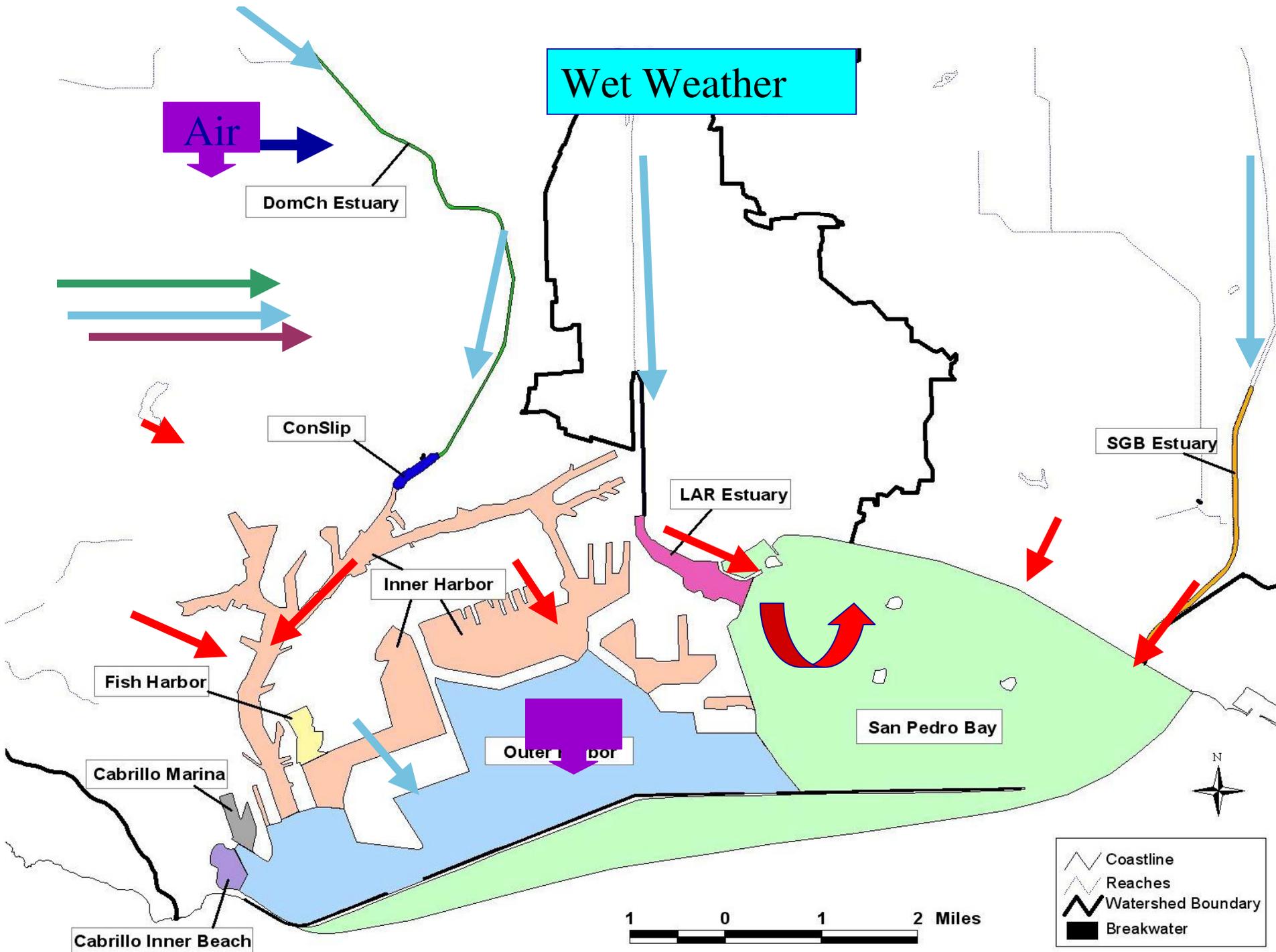
- CSTF database from SCCRWP (SQO)
- Excluded dredge data & reference stns.
- Includes surface data only
- Plot mean result for locations w/ more than one result
- Use more recent data record (1996 --)

Los Angeles / Long Beach Harbor Toxicity Control-Adjusted Percent Survival

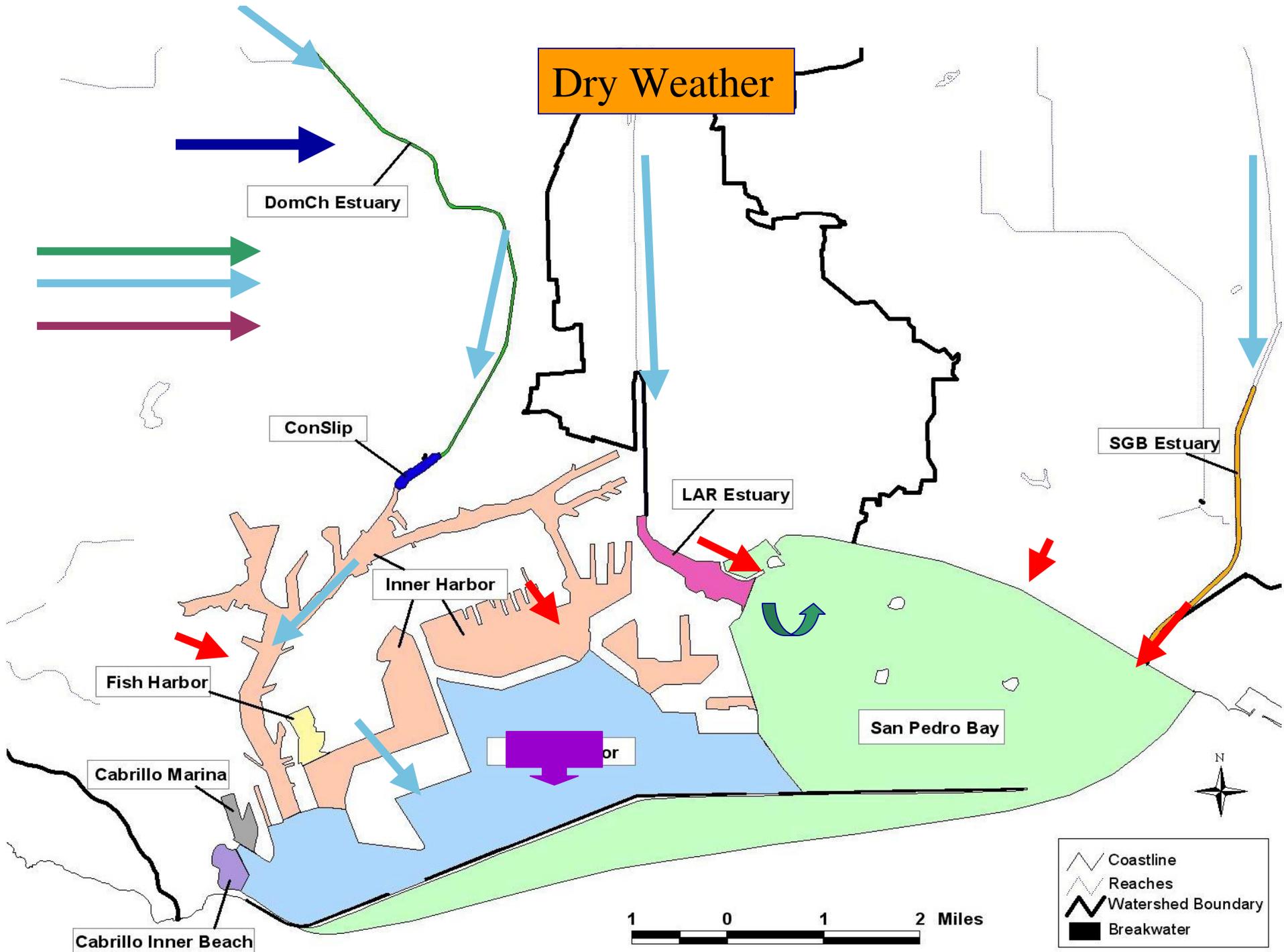


Los Angeles/Long Beach Harbor Zinc Sediment Concentrations





Dry Weather



Data gaps discussion

- Gaps = Areas of concern
- TACKle this??
- Other needs??



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Technical Assistance for TMDL Development

- Technical Advisory Committee (TAC)

TAC Stakeholders

- Experienced or willing to work with technical issues
- Familiar with local conditions and data collection

TAC Responsibilities

- Review model
- Review existing studies or monitoring projects/data
- Provide resources to expand technical information

TAC strawman

- Regulatory agencies
- Modeling consultants
- ACOE
- City of Los Angeles
- County of Los Angeles
- Port of Los Angeles
- Port of Long Beach
- Smaller municipalities
- Environmental Group
- Dischargers/industry

Implementation Plan

- Technical
- Policy

Discussion

- 1) TAC?
- 2) TAC: Effective representation?
 - Technical expertise?
- 3) Implementation?



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Harbor TMDL issues

- TMDLs and Dredging
 - Principles
- CSTF dredge qty. projections
- Options for disposal
- Discussion
- Other issues??

TMDLs and Dredging

- TMDLs as mass balancing exercise
- Need to account for dredged material:
 - REMOVAL from system
 - DISPOSAL to system
- Allocations needed to account for specifics of local situations, clarify whether anything different needs to be done on dredging
- TMDLs usually impose no additional burdens on dredging; not meant to duplicate Sec. 404/401 permitting process

TMDLs and Dredging Principles

- Dredging allocations more important when: –
TMDL analysis at fine geographical scales
- TMDL set at shorter time scales
- Gross allocations (e.g., “net zero”) sensible
where dredging causes net removal of pollutants
and no/limited local disposal
- In systems with comprehensive dredging strategy
(e.g., LTMS), TMDL endorses that and imposes
no additional burdens

Contaminated Dredge Qty

- POLA – 1.3 Million m³ (6 yrs)
- POLB – 4.4 Million m³ (5 yrs)
- LAR estuary – 0.05 Million m³ (1 yrs)

(estimated volumes as reference for CSTF LTMS)

Options for Cont. Sediment Disposal

- Land disposal
- Temporary aquatic disposal
- Treatment (STAR)
- Confined Aquatic disposal
 - Pilot study (CAD) into Island burrow pit



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Schedule/Roadmap

- Initial Activities
- Meetings
- TMDL Schedule *subject to modification*

Initial Activities

- 303(d) list
- identify data
- identify people, TAC
- beginning of modeling

Upcoming Meetings/Products

- DWAC meetings
- SRB meetings
- 303(d) list (soon)
- CEQA scoping meeting/checklist (Nov or Dec)
- Project Plan (Jan 06)

Schedule

- Dominguez Channel Estuary model 2006
- River Models
 - LA River (fresh water) model complete
 - San Gabriel River model '07
- Full receiving water model 2007
 - Hydrodynamic model spring/summer '06
 - WQ model winter '06 or '07
 - model allocation scenarios spring '07
- Draft TMDL 2008
 - Implementation Draft fall '07
 - Full draft winter '07 or '08
- Adoption of final TMDL 2008
- EPA approval 2009

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